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SPECIALIZING IN
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PATENT, TRADEMARK, COPYRIGHT,
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To: Group 2812
FAX #: 703-872-9306
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In re Application of:

James P. Ebling et al.

Serial No.: 10/604,716

Filed: August 12, 2003

For: MULTI-BEAM ANTENNA/

Group: 2812

Examiner:

Attorney Docket No.: 5701-00298

Facsimile Contents:

1. Transmittal Form - 1 page
2. INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §§ 1.97(b)(3) and 1.98(d)(1) - 2 pages;
3. FORM PTO-1449 - 6 pages;
4. INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §§ 1.97(b)(3) - 2 pages;
5. FORM PTO-1449 - 1 page;
6. Certificate of Mailing (on items 1, 2 and 4).

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PTO/SB/21 (08-03)

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TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	10/604,716	
	Filing Date	12 August 2003	
	First Named Inventor	James P. EBLING et al.	
	Art Unit	2812	
	Examiner Name		
Total Number of Pages in This Submission	12	Attorney Docket Number	5701-00298

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation <input type="checkbox"/> Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance communication to Technology Center (TC) <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input type="checkbox"/> Other Enclosure(s) (please identify below):
Remarks Two Information Disclosure Statements are submitted herewith REPLACEMENT VERSION w/ CORRECT DATE ON PTO-1449 FORMS		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Kurt L. VanVoorhies, Dinnin & Dunn, P.C.
Signature	<i>Kurt L. VanVoorhies</i>
Date	2 January 2004

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.			
Typed or printed name	Kurt L. VanVoorhies		
Signature	<i>Kurt L. VanVoorhies</i>	Date	2 January 2004

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Application Serial No.: 10/604,716

Attorney Docket No: 5701-00298

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

James P. Ebling et al.

Serial No.: 10/604,716

Filed: August 12, 2003

For: MULTI-BEAM ANTENNA/

Group: 2812

Examiner:

Attorney Docket No.: 5701-00298

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INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §§ 1.97(b)(3) and 1.98(d)(1)

2 January 2004

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Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Applicant submits this Statement in accordance with the duty of disclosure under 37 C.F.R. §1.56 and §§1.97-1.98, and more particularly in accordance with 37 C.F.R. §1.97(b)(3), i.e., filing the statement before the mailing date of a first Office action on the merits.

Identification of Prior Application in Which Listed Information Was Already Cited and for Which No Copies Are Submitted or Need Be Submitted Under 37 C.F.R. §1.98(d)(1)

This application relies, under 35 U.S.C. § 120, on the earlier filing date of prior application Serial No. 10/202,242, filed on July 23, 2002, now U.S. Patent No. 6,606,077.

Enclosed herewith is the List of References Cited by Applicant (PTO-1449). These references were submitted to, and/or cited by, the Office in the prior applications and, therefore, are not required to be provided in this application.

CERTIFICATE OF MAILING/TRANSMISSION (37 C.F.R. section 1.8(a))

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Signature

Date: 2 January 2004

Kurt L. Van Voorhies
(type or print name of person certifying)

Application Serial No.: 10/604,716

Attorney Docket No: 5701-00298

As all the references listed on attached Form PTO-1449 are in English, under 37 C.F.R. §1.98(a)(3), no further commentary is believed to be necessary. Applicant respectfully solicits the Examiner's consideration of the cited references and entry thereof into the record of this application.

Applicant, by submitting this Information Disclosure Statement, is attempting to fully comply with the duty of candor and good faith mandated by 37 C.F.R. §1.56. As such, this Information Disclosure Statement is not intended to constitute an admission that any of the enclosed references, or other information referred to therein, is otherwise "material to patentability," as that term is defined in that section.

Dinnin & Dunn, P.C.
2701 Cambridge Court, Suite 500
Auburn Hills, MI 48326
5701-00298
4 January 2004

Enclosure

Respectfully submitted,



Kurt L. VanVoorhies

Registration No. 38,643

Phone: 248-364-2100

Facsimile: 248-364-2200

Based on Form PTO-1449 (3/90)				ATTY. DOCKET NO. 5701-00298		SERIAL NO. Page 1 10/604,716	
APPLICANT James P. Ebling et al.							
FILING DATE August 12, 2003						January 2, 2004	
U. S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPLICABLE
	AA	3,761,936	9/25/1973	Archer et al.	343	754	
	AB	3,972,043	7/27/1976	Locus	343	756	
	AC	4,222,054	9/9/1980	Capps	343	754	
	AD	4,268,831	5/19/1981	Valentino et al.	343	754	
	AE	4,288,795	9/8/1981	Shelton	343	754	
	AF	4,638,322	1/20/1987	Lamberty	343	761	
	AG	4,641,144	2/3/1987	Prickett	343	754	
	AH	4,845,507	7/4/1989	Archer et al.	343	754	
	AI	4,983,237	1/8/1991	Alfing	156	83	
	AJ	5,099,253	3/24/1992	Archer	343	754	
	AK	5,204,686	4/20/1993	Petrellis et al.	342	374	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION Yes No
	AL						
	AM						
	AN						
	AO						
	AP						
OTHER PRIOR ART (including Author, Title, Date, Pertinent Pages, Etc.)							
	AR	G. Bekefi, and G. W. Farnell, "A homogenous dielectric sphere as a mi-crowave lens," Canadian Journal of Physics, vol. 34, pp. 790-803, 1956.					
	AS	G. Toraldo di Francia, "Spherical lenses for infrared and microwaves," Journal of Applied Physics, vol. 32, pp. 2051, 1961.					
	AT	Tomas L. Ap Rhys, "The design of radially symmetric lenses," IEEE Trans. on Antennas and Propagation, AP-18, pp. 497-506, July 1970.					
EXAMINER				DATE CONSIDERED			
* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Based on Form PTO-1449 (3/90)				ATTY. DOCKET NO. 5701-00298		SERIAL NO. Page 2 10/604,716	
APPLICANT James P. Ebling et al.							
FILING DATE August 12, 2003						January 2, 2004	
U. S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPLICABLE
	BA	5,274,389	12/28/1993	Archer et al.	343	754	
	BB	5,347,287	9/13/1994	Speciale	342	375	
	BC	5,451,969	9/19/1995	Toth et al.	343	781 CA	
	BD	5,548,294	8/20/1996	Sturza	342	372	
	BE	5,576,721	11/19/1996	Hwang et al.	343	753	
	BF	5,712,643	1/27/1998	Skladany	343	700 MS	
	BG	5,745,082	4/28/1998	Alder	343	753	
	BH	5,821,908	10/13/1998	Sreenivas	343	911 R	
	BI	5,828,344	10/27/1998	Alder et al.	343	755	
	BJ	5,874,915	2/23/1999	Lee et al.	342	375	
	BK	5,892,487	4/6/1999	Fujimoto et al.	343	840	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION Yes No
	BL						
	BM						
	BN						
	BO						
	BP						
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
	BR	L. C. Gunderson, "An electromagnetic analysis of a cylindrical homogeneous lens," IEEE Trans. on Antennas and Propagation, AP-20, pp. 476- 479, July 1972.					
	BS	S. Lee, M. S. Sheshadri, V. Jamnejad, and R. Mittra, "Refraction at a curved dielectric interface: geometrical optics solution," IEEE Trans. on Microwave Theory and Techniques, MTT-30, no. 1, pp. 12-19, Jan 1982.					
	BT	M. N. Afsar, "Dielectric measurements of common polymers at millimeter wavelength range," in IEEE MTT-S Digest, pp. 439-442, 1985.					
EXAMINER				DATE CONSIDERED			
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FILING DATE August 12, 2003						January 2, 2004	
U. S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPLICABLE
	CA	5,894,288	4/13/1999	Lee et al.	343	770	
	CB	5,913,549	6/22/1999	Skladany	29	600	
	CC	5,926,134	7/20/1999	Pons et al.	342	368	
	CD	6,031,501	2/29/2000	Rausch et al.	343	754	
	CE	6,046,703	4/4/2000	Wang et al.	343	795	
	CF	6,061,035	5/9/2000	Kinasewitz et al	343	853	
	CG	6,424,319	7/23/2002	Ebling et al.	343	911	
	CH						
	CI						
	CJ						
	CK						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION Yes No
	CL						
	CM						
	CN						
	CO						
	CP						
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
	CR	J. Ashkenazy, E. Levine, and D. Treves, "Radiometric measurement of antenna efficiency," in Electron. Lett., vol. 21, no. 3, pp. 111-112, Jan 1985.					
	CS	K. S. Yngvesson, T. L. Korzeniowski, Y. S. Kim, E. L. Kollberg, and J. F. Johansson, "The tapered slot antenna - a new integrated element for mm-wave applications," IEEE Trans. on Microwave Theory and Techniques, MTT-37, no. 2, pp. 365-374, Feb. 1989.					
	CT	J. Sanford, "A luneberg-lens update," IEEE Antennas and Propagation Magazine, vol. 37, no. 1, pp. 76-79, 1995.					
EXAMINER				DATE CONSIDERED			
* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Based on Form PTO-1449 (3/00)				ATTY. DOCKET NO. 5701-00298		SERIAL NO. Page 4 10/604,716	
APPLICANT James P. Ebling et al.							
FILING DATE August 12, 2003						January 2, 2004	
U. S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPLICABLE
	DA						
	DB						
	DC						
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	DF						
	DG						
	DH						
	DI						
	DJ						
	DK						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION Yes No
	DL						
	DM						
	DN						
	DO						
	DP						
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
	DR	S. Sugawara, Y. Maita, K. Adachi, K. Mori, and K. Mizuno, "A mm-wave tapered slot antenna with improved radiation pattern," in 1997 IEEE MTT-S Int. Microwave Symp. Dig., Anaheim, CA, June 1997, pp. 959-962.					
	DS	K. K. Chan, S. K. Rao, G. A. Morin, and M. Q. Tang, "Triangular ray-tube analysis of dielectric lens antennas," IEEE Trans. on Antennas and Propagation, vol. 45, no. 8, pp. 1277-1285, Aug 1997.					
	DT	F. Demmerle, S. Kern, and W. Wiesbeck, "A bi-conical multibeam antenna for space division multiple access," in Antennas and Propagation Society International Symposium, Montreal, Aug 1997, pp. 1082-1085.					
EXAMINER				DATE CONSIDERED			
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	EA						
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FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION Yes No
	EL						
	EM						
	EN						
	EO						
	EP						
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
	ER	H. Mosallaci, and Yahya Rahmat-Samii "Nonuniform luneburg and two-shell lens antennas: radiation characteristics and design optimization," IEEE Trans. on Antennas and Propagation, vol. 49, no. 1, pp. 60-68, Jan 2001.					
	ES	I. Gresham, N. Jain, T. Budka, A. Alexanian, N. Kinayman, B. Ziegner, S. Brown, and P. Staecker, "A compact manufactureable 76-77-GHz radar module for commercial ACC applications," IEEE Trans. on Microwave Theory and Techniques, vol. 49, no. 1, pp. 44-58, Jan 2001.					
	ET	B. Schoenlinner, X. Wu; G.V. Eleftheriades; G.M. Rebeiz, "Spherical-Lens Antennas for Millimeter Wave Radars", European Microwave Week 2001 Proc., pp. 317-320, vol. 3, September, 2001.					
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	FA						
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FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION Yes No
	FL						
	FM						
	FN						
	FO						
	FP						
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
	FR	B. Schoenlinner; G.M. Rebeiz, "Compact Multibeam Imaging Antenna for Automotive Radars", 2002 IEEE MTT-S Digest, pp. 1373-1376, June 2002.					
	FS	B. Schoenlinner; X. Wu; J.P. Ebling; G.V. Eleftheriades; G.M. Rebeiz, "Wide-Scan Spherical-Lens Antennas for Automotive Radars", IEEE Transactions on Microwave Theory and Techniques, vol. 50, no. 9, September 2002					
	FT						
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Application Serial No.: 10/604,716

Attorney Docket No: 5701-00298

PATENT**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE****In re Application of:**

James P. Ebling et al.

Group: 2812

Serial No.: 10/604,716

Examiner:

Filed: August 12, 2003

Attorney Docket No.: 5701-00298

For: MULTI-BEAM ANTENNA/**INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §§ 1.97(b)(3)**

2 January 2004

**Mail Stop DD
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450**

Dear Sir:

Applicant submits this Statement in accordance with the duty of disclosure under 37 C.F.R. §1.56 and §§1.97-1.98, and more particularly in accordance with 37 C.F.R. §1.97(b)(3), i.e., filing the statement before the mailing date of a first Office action on the merits. Enclosed herewith is the List of References Cited by Applicant (PTO-1449). As the instant application was filed after June 30, 2003, in accordance with the OG Notice of 05 August 2003, copies of the cited U.S. patents cited therein are not submitted herewith.

As all the references listed on attached Form PTO-1449 are in English, under 37 C.F.R. §1.98(a)(3), no further commentary is believed to be necessary. Applicant respectfully solicits the Examiner's consideration of the cited references and entry thereof into the record of this application.

CERTIFICATE OF MAILING/TRANSMISSION (37 C.F.R. section 1.8(a))

I hereby certify that, on the date shown below, this correspondence is being:

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☒ transmitted by facsimile to the Patent and Trademark Office to FAX number 703-872-9306


Signature

Kurt L. Van Voorhies

(type or print name of person certifying)

Date: 2 January 2004

Application Serial No.: 10/604,716

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Respectfully submitted,



Kurt L. VanVoorhies

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2701 Cambridge Court, Suite 500

Auburn Hills, MI 48326

5701-00298

4 January 2004

Enclosure

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	AA	3,683,379	8/8/1972	Saddler et al.	343	7 ED	
	AB	5,264,859	11/23/1993	Lee et al.	343	754	
	AC	5,313,213	5/17/1994	Neumann et al.	342	165	
	AD	5,446,470	8/29/1995	Avingnon et al.	343	713	
	AE	5,963,172	10/5/1999	Pfizenmaier et al.	343	721	
	AF	6,606,077	8/12/2003	Ebling et al.	343	911L	
	AG						
	AH						
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	AJ						
	AK						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION Yes No
	AL						
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	AO						
	AP						
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
	AR						
	AS						
	AT						
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